

1 & 1.5 inch Direct Thermal Printing Mechanism

Series Model	PT241	PT361
Product Photo		
PRINTING CHARACTERISTICS		
Print Method	Direct line thermal	Direct line thermal
Resolution	8 dots/mm	8 dots/mm
Max. Printing Width	24mm	36mm
Number of Dots	192	288
Paper Width	32.5±0.5mm	45.5±0.5mm
Max. Printing Speed	80mm/s	80mm/s
Paper Path	Curved	Curved
DETECTION		
Head Temperature	By thermistor	By thermistor
Paper Out	By photo sensor	By photo sensor
Black Mark	By photo sensor	By photo sensor
Platen Open	NA	NA
POWER SUPPLY		
TPH Logic Voltage	2.7V-5.5V	2.7V-5.5V
Drive Voltage	4.2V - 8.5V	4.2V - 8.5V
PEAK CURRENT		
Head(Max.)	4.0A(8.5V/64dots)	4.0A(8.5V/64dots)
Motor	Max. 420mA	Max. 420mA
RELIABILITY		
Pulse Activation	100 million	100 million
Abrasion Resistance	50KM	50KM
ENVIRONMENTAL		
Operating Temperature	0 - 50°C	0 - 50°C
PHYSICAL CHARACTERISTICS		
Dimensions(W*D*H)	45.2*32.7*15.1 mm	57.55*32.70*15.10mm
Mass	32g	36g

2 inch Direct Thermal Printing Mechanism

Series Model	PT481	PT483	PT485	PT485A-B	PT485A-H	PT486	PT487	PT488	PT488A-B	PT488A-H	PT489	PT48A	PT48B	PT48C	PT48D	PT48E	PT48F	PT48G	PT541	PT542
Product Photo																				
PRINTING CHARACTERISTICS																				
Print Method	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal
Resolution	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm
Max. Printing Width	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm	48mm
Number of Dots	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	384	432	432
Paper Width	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm	57.5±0.5mm
Max. Printing Speed	70mm/s	80mm/s	80mm/s	80mm/s	70mm/s	70mm/s	70mm/s	90mm/s	70mm/s	75mm/s	90mm/s	90mm/s	80mm/s	100mm/s	70mm/s	90mm/s	90mm/s	100mm/s	75mm/s	200mm/s
Paper Path	Curved/Straight	Curved	Curved	Curved	Curved	Curved	Curved	Curved	Curved	Straight	Curved	Curved	Curved	Curved	Curved	Curved/Straight	Straight	Straight	Curved/Straight	Curved/Straight
DETECTION																				
Head Temperature	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor
Paper Out	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor
Platen Open	Optional	NA	NA	NA	Optional	Optional	Optional	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	By Mechanical SW	By Mechanical SW
POWER SUPPLY																				
TPH Logic Voltage	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	3.0V-5.5V	2.7V-5.5V	2.7V-5.5V	2.7V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.25V
Drive Voltage	4.2V - 8.5V	4.2V - 8.5V	4.2V - 9.5V	3.3V - 8.5V	4.2V - 9.5V	4.2V - 9.5V	4.2V - 9.5V	4.2V - 9.5V	3.3V - 8.5V	4.2V - 9.5V	4.2V - 9.5V	4.2V - 9.5V	4.2V - 9.5V	4.2V - 9.5V	3.3V-5.5V	3.3V-5.5V	4.2V-9.5V	4.2V-9.5V	4.2V-9.5V	24V±10%
PEAK CURRENT																				
Head(Max.)	3.56A(9.5V/64dots)	3.56A(9.5V/64dots)	3.56A(9.5V/64dots)	3.86 A(7.2V/64dots)	2.4A(7.2V/64dots)	2.4A(7.2V/64dots)	2.4A(7.2V/64dots)	3.56A(9.5V/64dots)	3.86 A(7.2V/64dots)	2.64A(9.5V/45dots)	2.3A(7.2V/64dots)	2.3A(7.2V/64dots)	4.0A(8.5V/64dots)	2.64A(9.5V/45dots)	3.14A(4.2V/45dots)	2.4A(7.2V/64dots)	3.14A(4.2V/64dots)	2.3A(7.2V/64dots)	1.58A(24V/96dots)	2.9A(24V/96dots)
Motor	500mA	500mA	500mA	500mA	Max.1.0A	Max.1.0A	Max.1.0A	500mA	500mA	600mA	600mA	600mA	500mA	600mA	340mA	340mA	340mA	340mA	340mA	500mA
RELIABILITY																				
Pulse Activation	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million
Abrasion Resistance	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	50KM	100KM
ENVIRONMENTAL																				
Operating Temperature	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	-10-50°C	0 - 50°C	0 - 50°C	0 - 50°C	-10-50°C	-10-50°C	-5-50°C	-10-50°C	0 - 50°C	0 - 50°C	0 - 50°C
PHYSICAL CHARACTERISTICS																				
Dimensions(W*D*H)	81.9*39.50*16.00mm	83.1*41.0*39.5mm	67.4*32.3*30.8mm	67.4*32.3*30.8mm	69.7*32.7*15.5mm	67.3*31.5*18.5mm	68.0*24.4*25.6mm	68.0*24.4*25.6mm	68.5*31.0*22.0mm	69.2*28.3*31.7mm(exclude level of lock arm)	70.1*21.8*31.0mm	85.5*45.8*20.0mm	67.3*18.25*31.9mm	67.3*18.25*31.9mm	82.3*40.5*20.0mm	68.5*36.5*22.0mm	69.3*46.0*19.0mm	90.8*54.5*20.0mm	82.3*40.5*20.0mm	82.3*40.5*20.0mm
Mass	45g	147g	40g	40g	45g	40g	30g	30g	38g	42g	43g	28g	28g	98.2g	42.9g	31g	107g	110g	110g	

3 & 4 inch Direct Thermal Printing Mechanism without Cutter

Series Model	PT721	PT723	PT724	PT727	PT801	PT1041	PT1042	PT1043P
Product Photo								
PRINTING CHARACTERISTICS								
Print Method	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal
Resolution	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm
Max. Printing Width	72mm	72mm	72mm	72mm	72mm	104mm	104mm	104mm
Number of Dots	576	576	576	576	576	832	832	832
Paper Width	79.5±0.5mm	79.5±0.5mm	79.5±0.5mm	79.5±0.5mm	79.5±0.5mm	111.5±0.5mm	111.5±0.5mm	113.5±0.5mm
Max. Printing Speed	85mm/s	80mm/s	200mm/s	70mm/s	220mm/s	85mm/s	75mm/s	70mm/s
Paper Path	Curved	Curved	Curved	Curved	Curved	Curved	Curved	Straight
DETECTION								
Head Temperature	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor
Paper Out	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor
Platen Open	By mechanical SW	Optional	By mechanical SW	NA	By mechanical SW	By mechanical SW	By mechanical SW	NA
POWER SUPPLY								
TPH Logic Voltage	4.5V-5.5V	2.7V-5.5V	3.0V-5.5V	2.7V-5.5V	3.0V-5.5V	4.5V-5.5V	3.0V-5.5V	2.7V-5.5V
Drive Voltage	4.2V - 8.5V	4.2V - 8.5V	24V ± 10%	3.3V - 8.5V	24V ± 10%	4.2V - 8.5V	24V±10%	4.2V - 8.5V
PEAK CURRENT								
Head(Max.)	3.33A(8.5V/64dots)	2.4A(7.2V/64dots)	4.0A(24V/144dots)	3.86 A(7.2V/64dots)	3.3A(24V/144dots)	3.33A(8.5V/64dots)	2.4A(7.2V/64dots)	3.39A(7.2V/64dots)
Motor	1.0 A	1.0 A	1.0mA	500mA	300mA	1.0 A	500mA	350mA
RELIABILITY								
Pulse Activation	100 million	100 million	100 million	100 million	100 million	100 million	100 million	100 million
Abrasion Resistance	50KM	50KM	100KM	50KM	100KM	50KM	100KM	50KM
ENVIRONMENTAL								
Operating Temperature	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C
PHYSICAL CHARACTERISTICS								
Dimensions(W*D*H)	93.0*34.5*39.50mm	91.7*32.7*15.5mm	104.3*40.5*20.3mm	104.3*40.5*20.3mm	102*54.0*25.8mm	125.0*34.5*39.5 mm	138.2*61.4*27mm	143.6*31.4*18.5mm
Mass	91g	52g	125g	116.7g	175g	115g	160g	45g

6 & 8 inch Direct Thermal Printing Mechanism

Series Model	PT1561P	PT1562P	PT1563P	PT2161P	PT2163P (Control Board Integrated)
Product Photo					
PRINTING CHARACTERISTICS					
Print Method	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal	Direct line thermal
Resolution	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm	8 dots/mm
Max. Printing Width	144mm	144mm	144mm	216mm	216mm
Number of Dots	1152	1152	1152	1728	1728
Paper Width	149.5±0.5mm	149.5±0.5mm	150mm - 156mm	210mm-216mm	210mm-216mm
Max. Printing Speed	90mm/s	90mm/s	50mm/s	50mm/s	50mm/s
Paper Path	Curved	Curved	Curved	Curved	Curved
DETECTION					
Head Temperature	By thermistor	By thermistor	By thermistor	By thermistor	By thermistor
Paper Out	By photo sensor	By photo sensor	By photo sensor	By photo sensor	By photo sensor
Platen Open	By mechanical SW	By mechanical SW	By mechanical SW	By mechanical SW	By mechanical SW
POWER SUPPLY					
TPH Logic Voltage	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V	3.0V-5.5V
Drive Voltage	12V±10%	12V±10%	12V±10%	24V±10%	24V ± 10%
PEAK CURRENT					
Head(Max.)	2.64A(12V/64dots)	2.64A(12V/64dots)	2.64A(12V/64dots)	8.0A(24V/480dots)	8.0A(24V/480dots)
Motor	500mA	500mA	500mA	500mA	500mA
RELIABILITY					
Pulse Activation	100 million	100 million	100 million	100 million	100 million
Abrasion Resistance	50KM	50KM	50KM	50KM	50KM
ENVIRONMENTAL					
Operating Temperature	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C	0 - 50°C
PHYSICAL CHARACTERISTICS					
Dimensions(W*D*H)	180.7*53.8*40.8mm	180.7*53.8*40.8mm	198.5*55.89*38mm	264.5*55.9*37.3mm	264.5*55.9*37.3mm

Label Printer Module

Series Model	PT561	PT562	PT802
Product Photo			
PRINTING CHARACTERISTICS			
Print Method	Direct line thermal	Direct line thermal	Direct line thermal
Resolution	8 dots/mm	8 dots/mm	8 dots/mm
Max. Printing Width	56mm	56	